

# *The Temperature's Rising!*

A Town Hall Meeting on Solutions to the Global Warming Crisis  
Berkeley City College Auditorium, April 14, 2007

Host: Assemblymember Loni Hancock



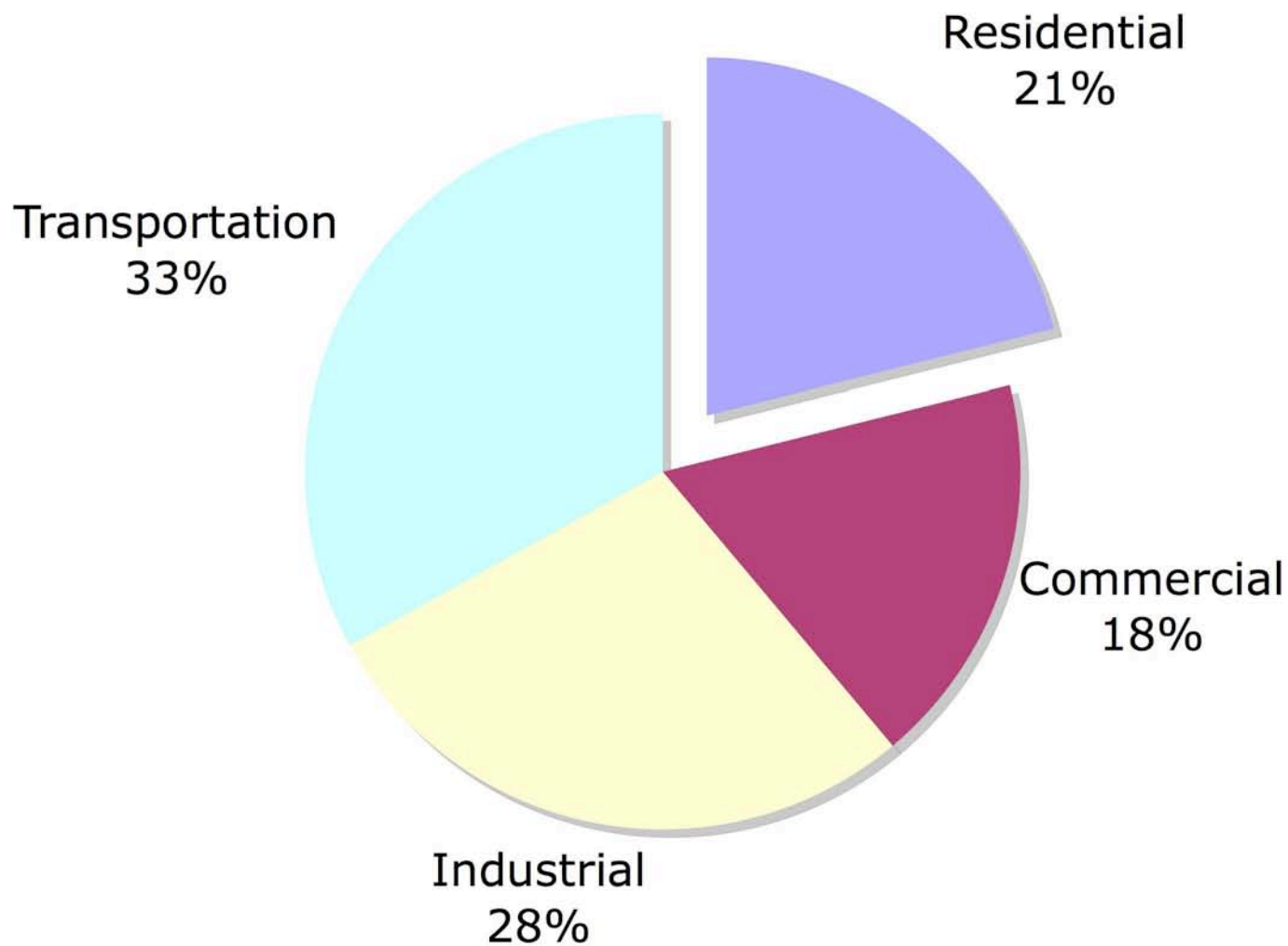
*Bringing it all back home:*

What can individuals do to  
affect climate change

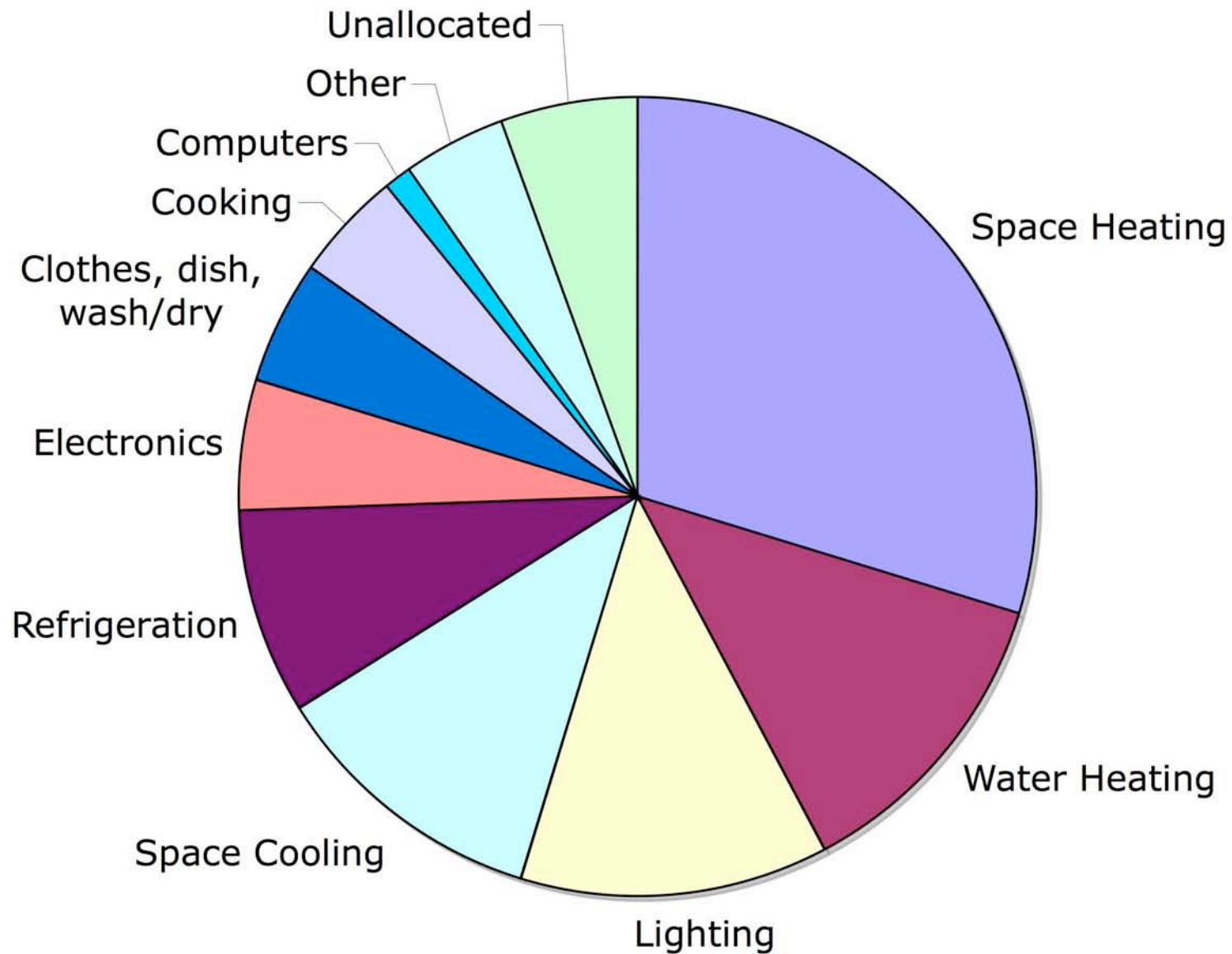
**Evan Mills, Ph.D., Staff Scientist  
Lawrence Berkeley National Laboratory**

# US Carbon Dioxide Emissions: 2005

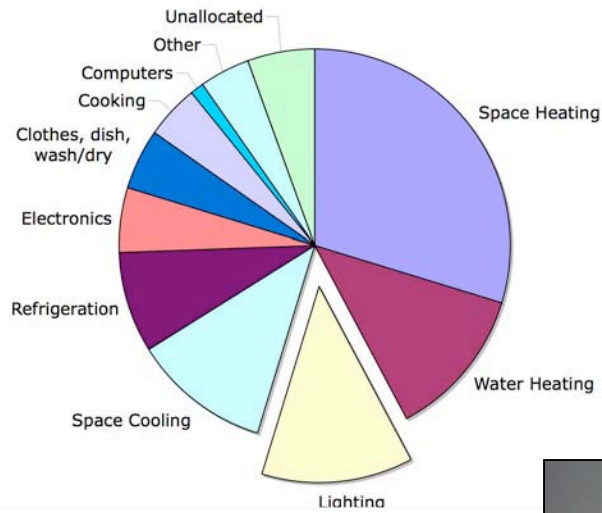
1.6 billion Tonnes Carbon



## Carbon Footprint of US Homes, 2005: 329MT



**Carbon Footprint of US Homes, 2005: 329MT**

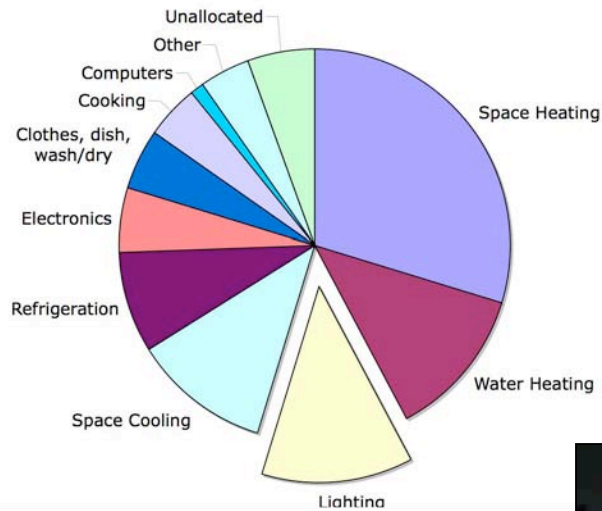


# Compact Fluorescent Lights (“CFLs”)

**41 million tons carbon/year  
[ 12% of total ]**



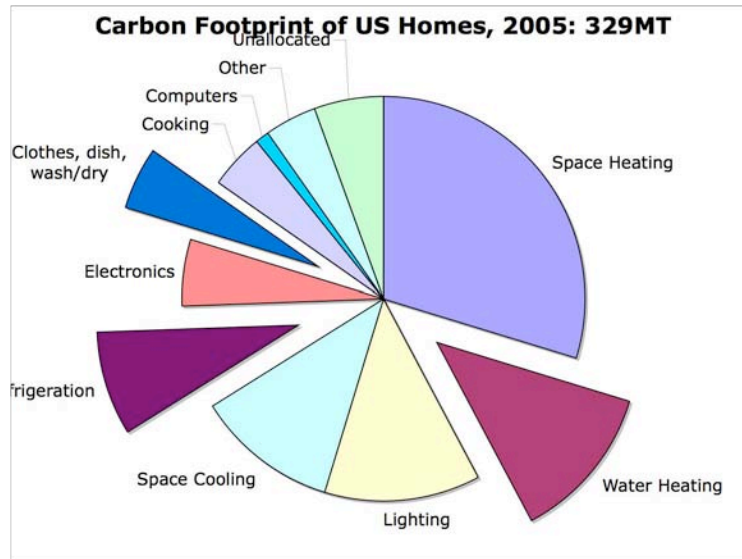
**Carbon Footprint of US Homes, 2005: 329MT**



# Dimmable“Linear” Fluorescent Lights

**41 million tons carbon/year  
[ 12% of total ]**



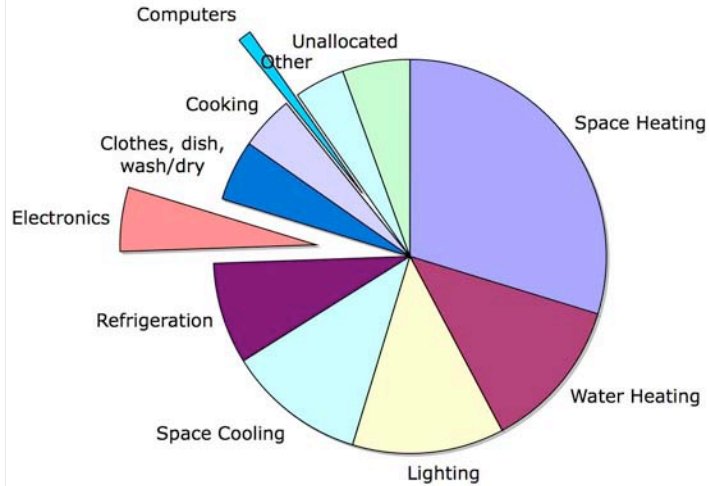


# Efficient Appliances

**100 million tons carbon/year**  
**[ 30% of total ]**



**Carbon Footprint of US Homes, 2005: 329MT**

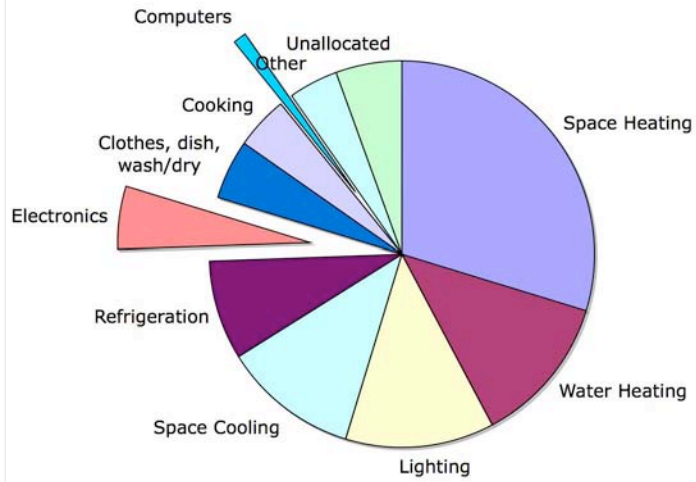


# EnergyStar Home Electronics

**17 million tons carbon/year**  
**[ 5% of total ]**

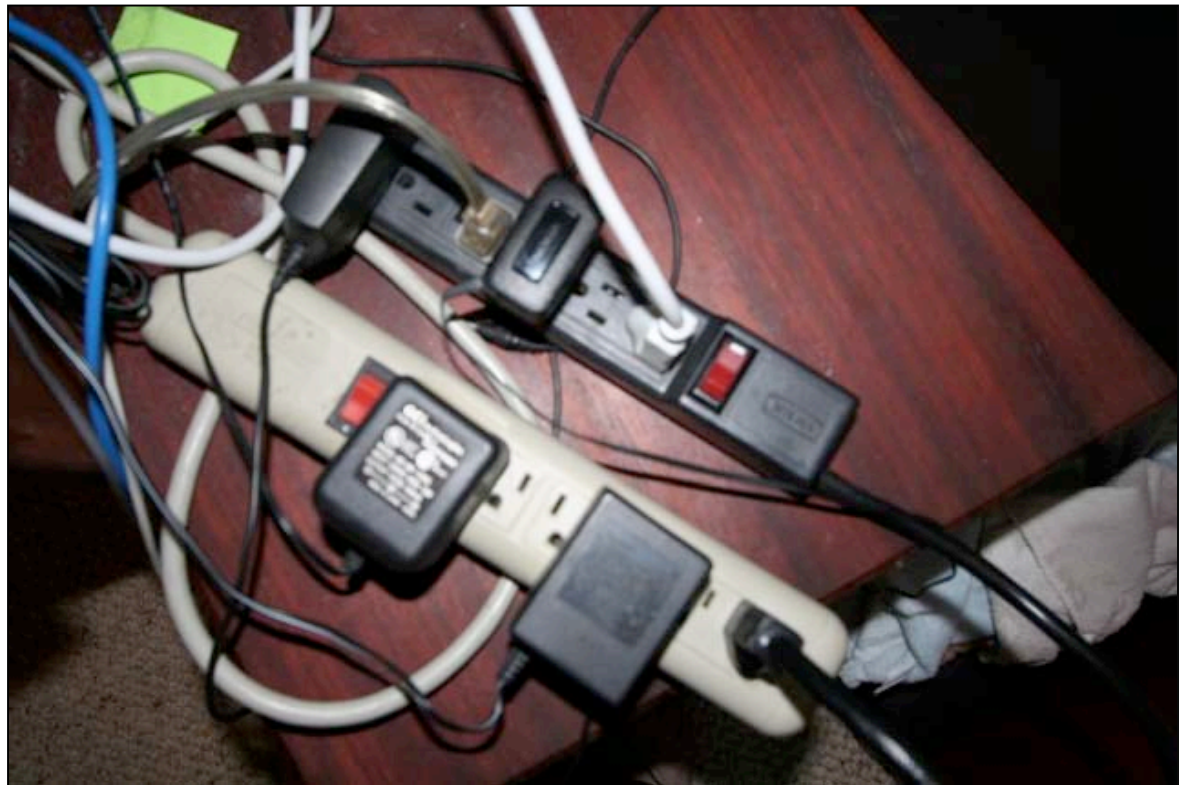


**Carbon Footprint of US Homes, 2005: 329MT**

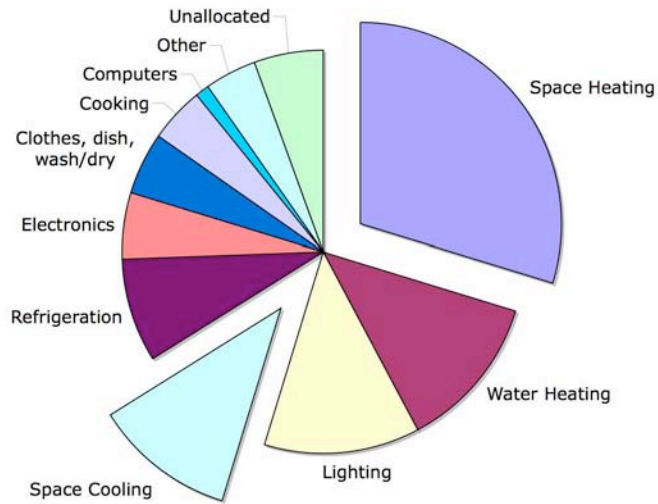


# Kill the Vampires

**17 million tons carbon/year  
[5% of total]**



**Carbon Footprint of US Homes, 2005: 329MT**

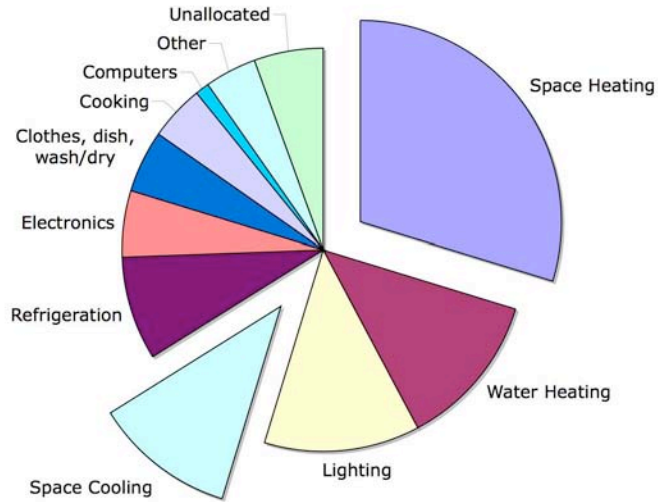


# “Low-e” Windows & Skylights

**136 million tons carbon/year  
[41% of total]**



**Carbon Footprint of US Homes, 2005: 329MT**



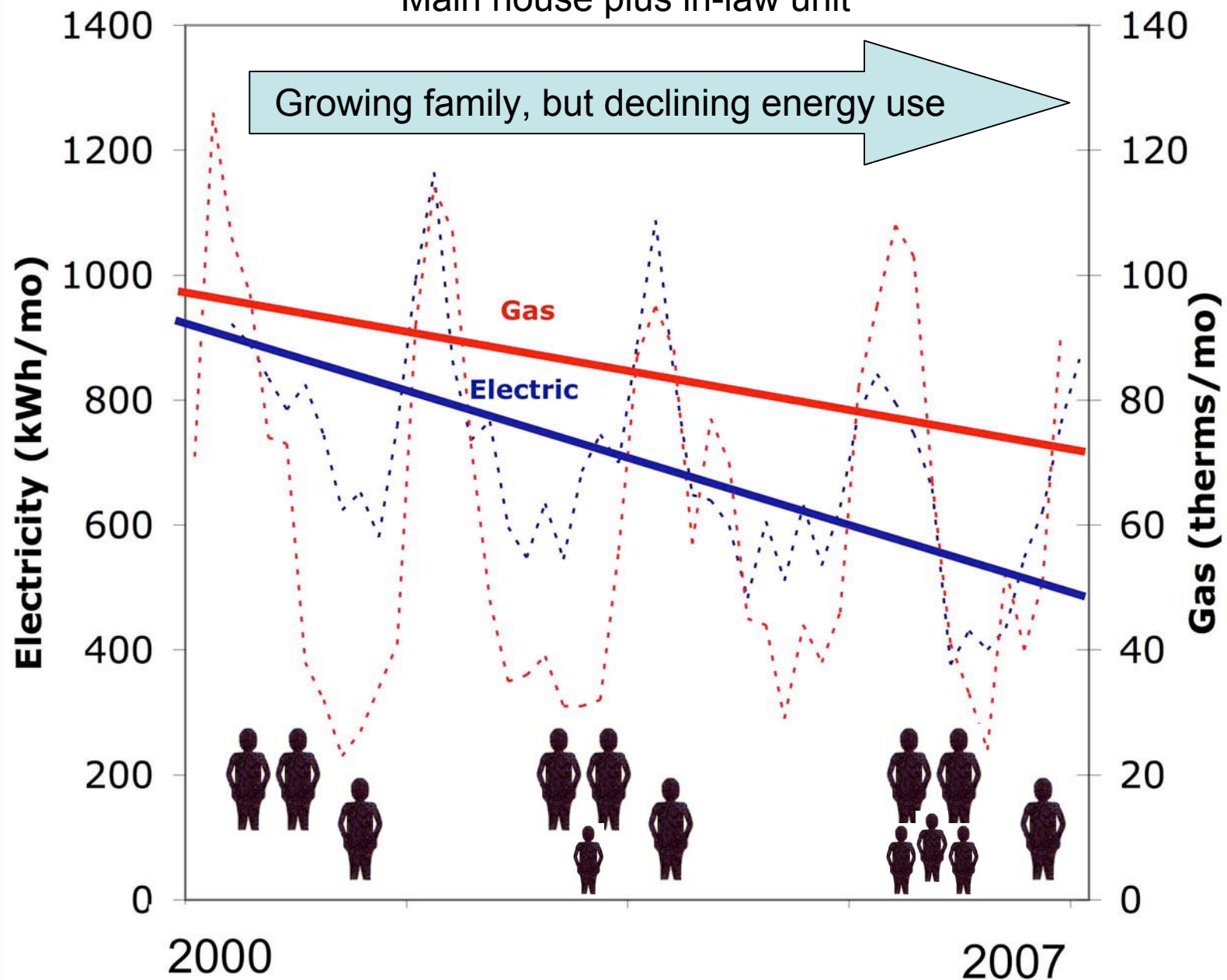
# Insulated/Sealed Ductwork

**136 million tons carbon/year  
[41% of total]**



# Our Home's Monthly Energy Consumption History

Main house plus in-law unit



# Time-of-Use (TOU) Electricity Tariff

*Advanced digital  
metering - logs  
electricity use by  
time of day and  
year*

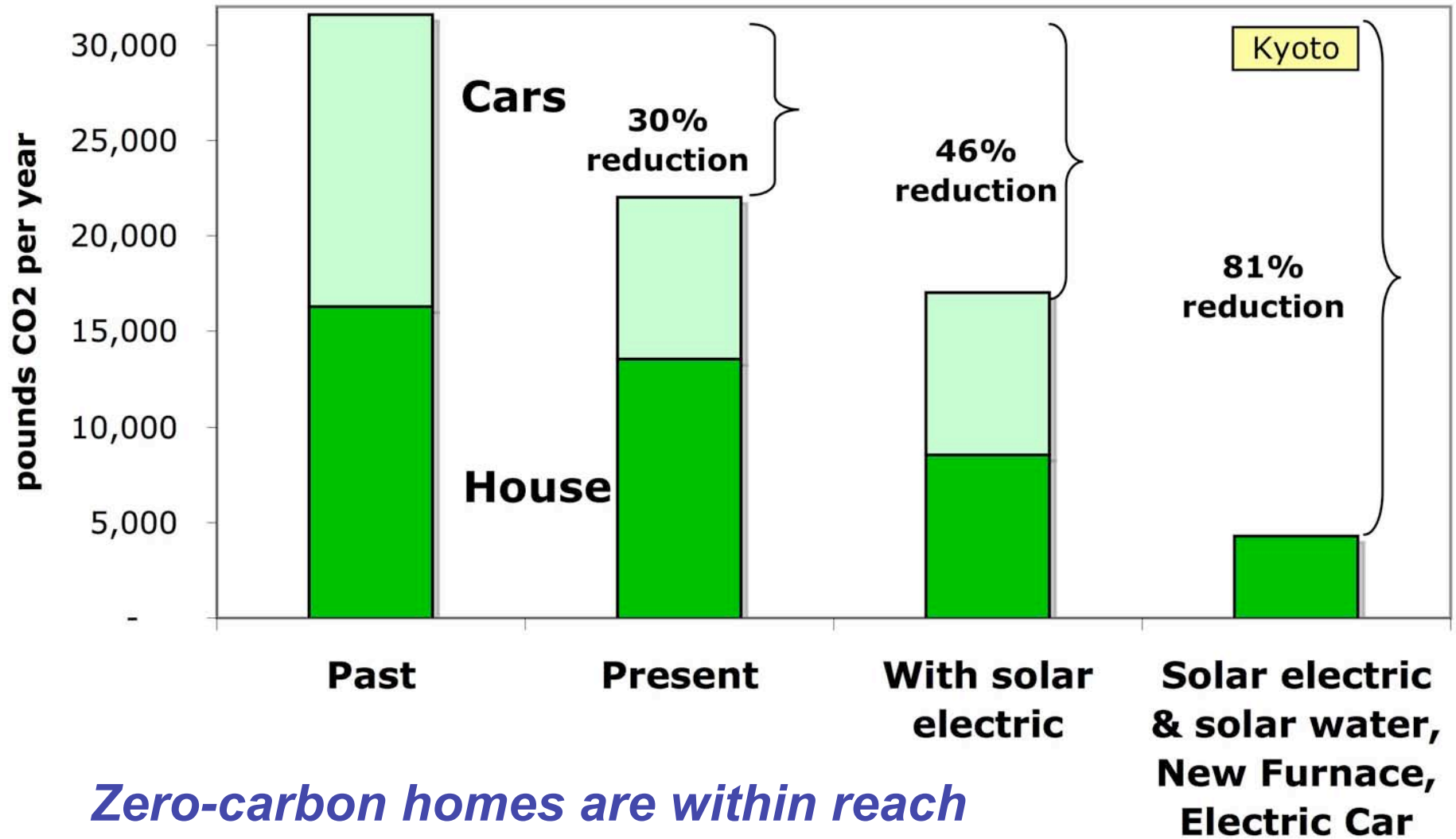
*Encourages use of  
electricity during  
off-peak periods;  
maximizes  
payments for solar-  
generated  
electricity sold  
back to grid*



# Improved vehicle fuel efficiency [3x savings vs prior vehicle]



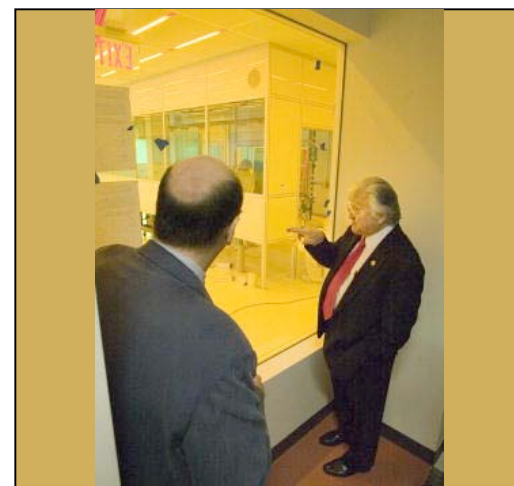
## Greenhouse Gas Reductions at Our House (main house + in-law unit)

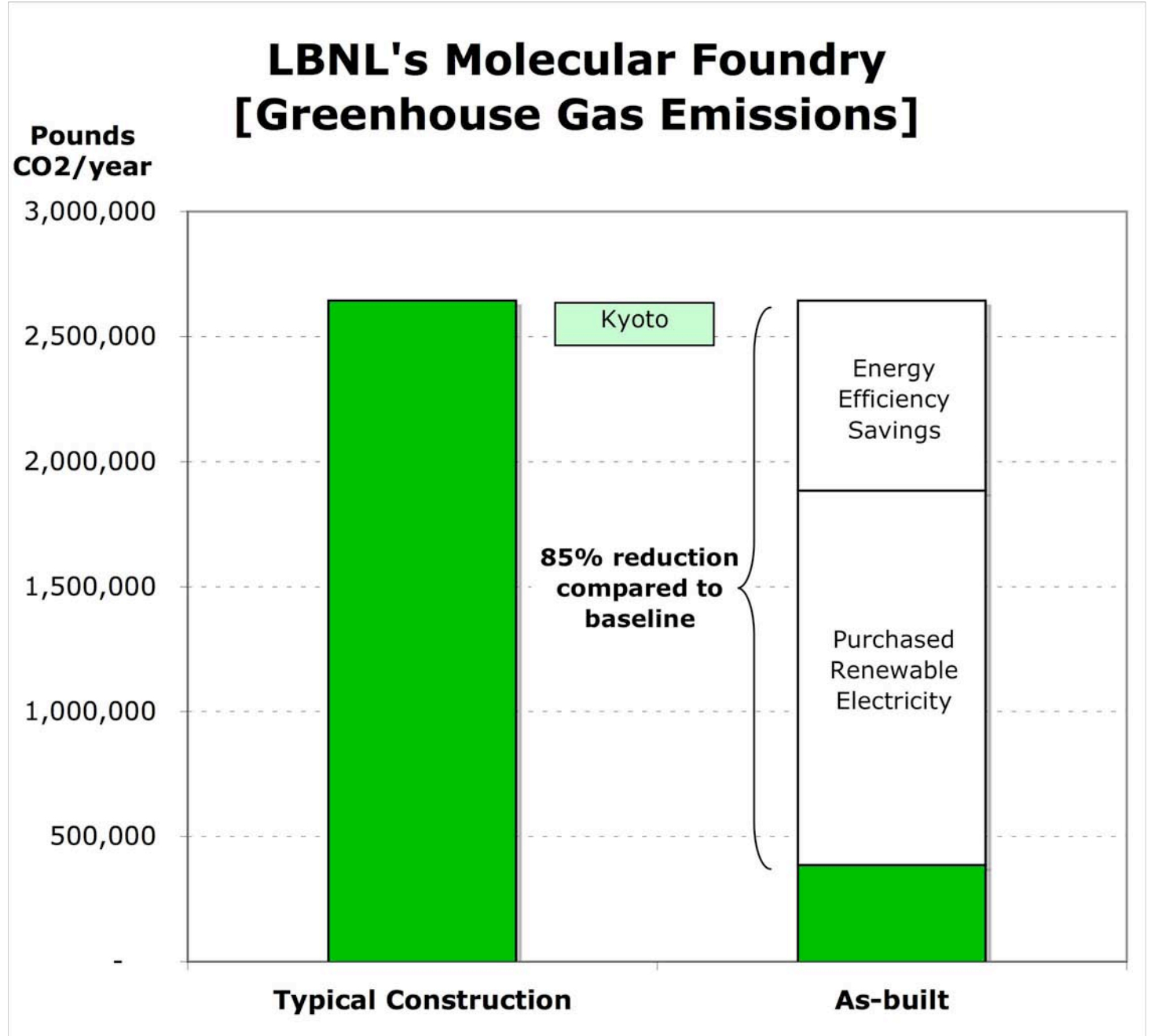


# Other things...

- Roof insulation
- Telecommuting - 50% time
- Composting and recycling (reduced methane from landfill)
- Emphasize organic & locally produced foods

# The Molecular Foundry - High-tech can be green





# http://HomeEnergySaver.lbl.gov

The Home Energy Saver - Mozilla

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Developed by the Environmental Energy Technologies Division at the Lawrence Berkeley National Laboratory

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Go!

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## Home Energy Saver

Making It Happen

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General Info Heating & Cooling Water Heating Major Appliances Small Appliances Lighting

Session ID: 566483  
Zipcode: 92549  
Location: Idyllwild, California

### Initial Results: Your Energy Bill (\$/year)

Existing Home \$1340  
with Selected Upgrades \$759

	Heating	Cooling	Water Heating	Major Appliances	Lighting	Small Appliances
Existing Home	\$ 411	\$ 9	\$ 182	\$ 429	\$ 152	\$ 157
With Selected Upgrades	\$ 169	\$ 9	\$ 100	\$ 233	\$ 91	\$ 157

Instructions | Existing Home Configuration: View | Change

View or Modify Upgrade Details View Upgrade Report

### Selected Upgrade Package for your Home

Upgrades Requiring Investment

1. Thermostat
2. Electric clothes dryer
3. Indoor lights
4. Dishwasher
5. Gas water heater
6. Clothes washer
7. Duct Sealing
8. Refrigerator
9. Wall insulation
10. Air sealing
11. Windows
12. Gas furnace
13. Attic insulation
14. Slab insulation
15. Ceiling fan
16. Duct Insulation
17. Cool roof

Comparing Results to your Utility Bill | See typical costs of running various appliances

### Potential Annual Savings

Money:	\$581
Energy:	2,271 kWh & 302 Therms
CO <sub>2</sub> Emissions:	3,921 lb. CO <sub>2</sub>

More detail on energy and CO<sub>2</sub> emissions...